



TAGEM
R&D AND INNOVATION

TRANSITIONAL ZONE AGRICULTURAL
RESEARCH INSTITUTE/ESKİŞEHİR

Melis Özge PINAR, PhD Agricultural Engineer

EDUCATION

- Ph.D.** Ankara University - Graduate School of Natural and Applied Science, Dept. of Soil Science & Plant Nutrition, 2021 (Eskisehir Technical University – Earth and Space Sciences Institute 2012-2013 fall & spring semesters)
- M.Sc.** Ankara University - Graduate School of Natural and Applied Science, Dept. of Soil Science & Plant Nutrition, 2011 (School of Agri-food and Forestry Science and Engineering (ETSEA) Dept. of Environment & Soil Sciences, Universitat de Lleida, Spain 2008-2009 fall semester)
- B.S.** Ankara University - Faculty of Agriculture, Dept. of Agricultural Engineering (Soil Science & Plant Nutrition), 2007

CAREER


- T.R. MoAF, TAGEM**
Transitional Zone Agricultural Research Institute, Eskisehir
Dept. Soil and Water Resources Research
Climate Change and Agricultural Ecology (2011 – ongoing)

ABOUT ME

1984 – Ankara

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CONTACT

 GKTAEM Toprak ve Su Yerleşkesi
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■ **PROJECTS**

■ **Completed Projects**

1. BAP Project: Determining to the temporal variability of soil susceptibility along to the splash and surface erosion processes (2010-2012/researcher)
2. TAGEM project: Determination of Plant Nutrition Status and Potential Toxic Element Contents of Eskişehir, Kutahya and Bilecik Provinces Soils, Preparation of Soil Data Base and Soil Maps (2013-2019/researcher)
3. TAGEM project: The Determination and Monitoring of Spatial and Temporal Variability of Soil Moisture and Soil Roughness Using Microwave Satellite Images (2016-2020/researcher)
4. TAGEM project: Investigation of Relationships between Cover Management factor with LAI and NDVI in Different Land Uses (2015-2021/coordinator)

■ **Ongoing Projects**

1. FAO-GEF project: Contributing to Land Degradation Neutrality (LDN) Target Setting by Demonstrating the LDN Approach in the Upper Sakarya Basin for Scaling up at National Level (GCP/TUR/065/GFF) (2019-2023/partner project staff)
2. EU HORIZON 2020 - EJP SOIL/TAGEM: A novel protocol for robust in field monitoring of carbon stock and soil quality properties based on proximal sensors and existing soil spectral libraries (PROBEFIELD) (2021-2024/responsible person)
3. EU HORIZON 2020 - EJP SOIL/TAGEM: Mapping and alleviating soil compaction in a climate change context (SoilCompac) (2021- 2024/researcher)
4. EU HORIZON 2020 - EJP SOIL/TAGEM: Scenario modelling for assessing impacts of policy changes and socio-economic effects on ecosystem services of soils (SIMPLE) (2022-2024/researcher)
5. Joint DLR-INTA Scientific Announcement of Opportunity project: Monitoring crop parameters using multi-temporal X-band data (2022-2024/researcher)
6. TAGEM project: Investigating the use of marginal water in agricultural irrigation and determining its contribution to the circular economy (MARSUDE), Determination of possibilities of using domestic sewage for sunflower cultivation in Eskişehir (2022-2024/researcher)



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■ **PUBLICATIONS**

■ **INTERNATIONAL ARTICLES AND PAPERS**

■ **Articles Published in International Journals**

1. **Pınar, M.Ö.**, Erpul, G. Soil Erodibility Evaluation by Splash Cups under the Simulated Rainfalls. Eurasian J. Soil Sci. 2 (2012) 92 – 97. ISSN: 2147-4249.
2. Taşpınar, K., Ateş, Ö., **Pınar, M.Ö.**, Yalçın, G, Kızılaslan, F. and Fidantemiz, Y.F. (2021). Soil contamination assessment and potential sources of heavy metals of Alpu plain Eskişehir Turkey, International Journal of Environmental Health Research DOI: 10.1080/09603123.2021.1876218.
3. Taşpınar, K., Ateş,Ö., Yalçın, G., Kızılaslan, K and **Pınar, M.Ö.** (2021) Soil contamination and health risk assessment of peach orchards soil of Bilecik Province Turkey, International Journal of Environmental Health Research, DOI: 10.1080/09603123.2021.1926439.
4. Erpul, G., Gabriels, D., **Pınar, M.Ö.**, Sagun, Ç., Cornelis, C. 2021. Splash detachment of sand particles under varying contact stress field of wind-driven raindrop impact. Earth Surface Processes and Landforms, 1–14. <https://doi.org/10.1002/esp.5214>.
5. Ateş, Ö., Taşpınar, K., Yalçın, G., Kızılaslan, F., **Pınar, M.Ö.**, Toprak, S., Alveroğlu, V., Yavuz, R. and Özen, D. (2022) Ecological and contamination assessment of soil in the region of coal-fired thermal power plant, International Journal of Environmental Health Research, DOI: 10.1080/09603123.2022.2108384.
6. Abdikan, S., Sekertekin, A., Madenoğlu, M., Özcan, H., Peker, M., **Pınar, M.Ö.**, Koc, A., Akgül, S., Secmen, H., Kececi, M., Tuncay, T. and Balık Sanlı, F. (2023). Surface soil moisture estimation from multi-frequency SAR images using ANN and experimental data on a semi-arid environment region in Konya, Turkey. Soil and Tillage Research, Volume 228, 105646, ISSN 0167-1987. <https://doi.org/10.1016/j.still.2023.105646>.
7. **Pınar, M.Ö.**, Erpul, G. Upscaling plot-based measurements of RUSLE C-factor of different leaf-angled crops in semi-arid agroecosystems. Environ Monit Assess 195, 1341 (2023). <https://doi.org/10.1007/s10661-023-11970-8>.
8. Taşpınar, K., Ateş, Ö., Yalçın, G., Kızılaslan, F., **Pınar, M.Ö.**, Toprak, S., Özen, D., Alveroğlu, V., Bayram, M., Çakıllı, H., Altay, A., Yavuz, R. & Dinek, İ. (2023) Soil contamination, pollution indices, and ecological risk in agricultural areas of important mining region of Türkiye, International Journal of Environmental Analytical Chemistry, DOI: [10.1080/03067319.2023.2270911](https://doi.org/10.1080/03067319.2023.2270911)

■ **International Papers, Seminars, etc.**

1. **Pınar, M.Ö.**, Erpul, G. Soil Erodibility Evaluation by Splash Cups under the Simulated Rainfalls. Eurasian J. Soil Sci. 2 (2012) 92 – 97. ISSN: 2147-4249. (8th International Soil Science Congress on “Land Degredation&Challanges in Sustainable Soil Management” May 15-17, 2012 İzmir – Türkiye)
2. Erpul, G., Gabriels, D., Sagun, Ç., **Pınar, M.Ö.**, Cornelis, W. 2015. Sand Detachment under Obliquity of Wind- Driven Rain (WDR) Vector. DESERTLAND II Conference on Desertification & Land Degradation (16-17 June 2015) Gent – Belgium.
3. Erpul, G., Gabriels, D., Sagun, Ç., **Pınar, M.Ö.**, Cornelis, W. 2016. Sand detachment with shallow asymmetric corona formation under well-developed lateral jets of wind-driven raindrop impacts. AGROENVIRON. 10th International Symposium on Agriculture and the Environment (May 23-27, 2016) Purdue University, Indiana-USA.



Melis Özge PINAR, PhD

Agricultural Engineer



4. **Pinar, M.Ö.**, Şahin, S., Madenoğlu, S., Erpul, G. 2018. Determining Severe Erosion Affected Areas and Estimation Reservoir Sediment Load in Derinöz Dam Basin. 5th International Symposium of Dam Safety (27-31/10/2018). Istanbul-Turkiye.
5. Madenoğlu, S., Şahin, S., **Pinar, M.Ö.**, Erpul, G. 2018. The Effect of Sustainable Soil/Land Management on Erosion and Dam Safety. 5th International Symposium of Dam Safety (27-31/10/2018). Istanbul-Turkiye.
6. **Pinar, M.Ö.** and Erpul, G. 2019. Monitoring land cover changes during different growth stages of semi-arid cropping systems of wheat and sunflower by NDVI and LAI. 8th International Conference on Agro-Geoinformatics, Istanbul, Turkiye, 2019, pp. 1-5. DOI: 10.1109/Agro-Geoinformatics.2019.8820423 <https://ieeexplore.ieee.org/document/8820423>.

■ NATIONAL ARTICLES AND PAPERS

■ Articles Published in National Journals

1. **Pinar, M.Ö.**, Erpul, G. 2018. Determination of cover management factor (C-Factor) in agricultural lands and its relationship with NDVI. SDU, Journal of the Faculty of Agriculture Special Issue: 83-90, 2018 ISSN 1304-9984 (Turkish)
2. Madenoğlu, S , Özcan, H , Remzi, M., **Pinar, M.Ö.** , Akgül, S , Keçeci, M , Tunçay, T , Seçmen, M , Koç, A , Üstüner, M , Şekertekin, A , Abdikan, S , Esetlili, M , Sensoy, A , Kaya, Ş , Erpul, G , Balık Şanlı, F. (2022). Analysis of soil moisture in semi-arid areas with multi-temporal RADARSAT-2 data. Journal of Geodesy and Geoinformation, 9 (1) , 1-11 . DOI: 10.9733/JGG.2022R0001.T (Turkish)

■ National Papers, Seminars, etc.

3. Madenoğlu, S., Saygın, S. D., **Pinar, M.Ö.**, Tercan, E., Erpul, G., Bayramin, İ. 2010. Değişik YETKE – K Yaklaşımlarının Konumsal Dağılımlarının ve Sıçrama Erozyonu ile Bağlantılarının Belirlenmesi. 1st National Soil & Water Resources Congress (1-4 June, 2010) Eskisehir - Turkiye (Turkish)
4. **Pinar, M.Ö.**, Erpul, G. 2013. Farklı Konumsal İstatistik Modelleri ile Toprak Özelliklerinin eğerlendirilmesi 3rd National Soil and Water Resources Congress (22-24 October, 2013) Tokat- Turkiye (Turkish)

■ OTHER PUBLICATIONS

■ Ph.D. Thesis, Master Thesis, Reports, Books etc.

1. **M.Sc. thesis:** Pinar, M.Ö. 2011. Evaluation of relationships among splash erodibility, aggregate stability and organic material contents. June, 2011. (Document no: 299711)
2. **Translation book:** Erpul, G., Saygın S.D., Samray, H., Pinar, M.Ö., Şengören, A. 2014. FAO – Arazi Kullanım Planlamasının Esasları (Birleşmiş Milletler Gıda ve Tarım Örgütü – Roma, 1993). Ankara University publications, Edition No:439. ISBN:978-605-84875-0-5
3. **Ph.D. dissertation:** Investigation of the Relationships between Cover Management Factor, LAI and NDVI in Different Land Uses and Evaluation at Regional Scale, January, 2021 (Document no: 664511)



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▪ **Membership, Training, Course, Meeting, Congress, Symposium and Other Activities**

1. Dept. of Soil Science, Szent Istvan University, Hungary (06/2006-08/2006) Lab. training
2. ICE (International Center of Eremology), Department of Soil Management, Ghent University, Belgium (06/2007 – 09/2007)
3. Congress of Global Environment Facility (GEF-5), 2011. Antalya/Turkiye
4. 8th International Soil Science Congress on “Land Degradation and Challenges in Sustainable Soil Management” 2012. İzmir/ Turkiye
5. Climate Change and Agriculture Workshop, 2013. Kırklareli/ Turkiye
6. 3rd National Soil and Water Resources Congress, 2013. Tokat/ Turkiye
7. DESERTLAND II Conference on Desertification and Land Degradation, 2015. Ghent/Belgium
8. T.R. MoAF - TAGEM, 2011 training on GIS-RS, Ankara/ Turkiye
9. T.R. MoAF - TAGEM, 2016 training on Geostatistics, Ankara/ Turkiye
10. T.R. MoAF - TAGEM, 2016, training on Meteorological Equipment Working Systems - IARTC, İzmir/ Turkiye
11. BEF (Department of Biogeochemistry of Forest Ecosystems): Climate Change effects/Modeling Connectivity, INRA, France (12/2016-03/2017)
12. ICASI 2018, 1st International Congress on Agricultural Structures and Irrigation. Antalya/Turkiye
13. 5th International Symposium on Dam Safety. Istanbul/ Turkiye
14. T.R. MoAF - IARTC, 2018. “3rd Workshop on the Effects of Climate Change on Agriculture” İzmir/Turkiye
15. R.T. MoAF - GM of Combating Desertification and Erosion, 2018. “Workshop on Determination Statistics of Water and Wind Erosion of Turkiye” Ankara/ Turkiye
16. 8th International Congress of Agro-geoinformatics, 2019. ITU, İstanbul/Turkiye
17. UAV1 licence (GD of Civil Aviation)
18. T.R. MoTI - Certificate of competence for operators of pleasure craft
19. T.R. MoTI - Certificate of competence for short range radio operators
20. First EU Soil Observatory Stakeholders Forum - Young Soil Researchers Forum, 2021.
21. Integration meeting for UAV flights with the airspace control plan, 2021. Eskişehir Turkiye
22. EU HORIZON 2020 EJP SOIL - TAGEM, National Workshop on Sustainable Soil Management, 20-21 June 2022. İzmir/Turkiye.